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Local Climatological Data Summary Carbondale, Illinois 1894-1994

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Illinois State Water Survey
1995

LOCAL CLIMATOLOGICAL DATA FOR CARBONDALE ILLINOIS 1894-1994

Climatological Summary:

Carbondale (Jackson County) has a temperate continental climate, dominated by maritime tropical air from the Gulf of Mexico from about April through November. Gulf air generally supports relative humidities of about 60% during the day and 85% at night. This is the airmass which yields a warm to hot, "muggy" environment, particularly from May through October. There are occasional, brief interruptions of drier, cooler air from the Pacific Ocean, but they typically only last a few days. The climate of southern Illinois is decidedly less wintery than that of northern Illinois, in both intensity and duration.

From November through April, the Carbondale area is dominated by air from the Pacific Ocean, interrupted by several incursions of cold, dry air from the Canadian Arctic, bringing temperatures into single digits or even negative values for a few days, each such outbreak usually preceded by (perhaps heavy) snowfall. Ground frost is usually only a temporary phenomenon in Carbondale, typically continuing for a few days or a week at a time during January and February.

Precipitation during winter months averages about three inches, whereas that for summer is about four inches, for an annual total of 44.40 inches. Snow and freezing precipitation are common in winter, but being in an area with temperatures often near 32F, the mix of liguid, frozen and freezing precipitation changes dramatically from year to year. Summer precipitation is in the form of showers and thunderstorms.

Snowfalls of 6 inches or more at Carbondale are expected about once every other year on average. Mean annual snowfall is about 14 inches, the greatest monthly snowfall ever in Carbondale being 25.3 inches in January 1918. Snowcover seldom continues on the ground for more than a few days at a time. Snowcover of two inches or more has persisted 28 days during a winter only five times since 1910. The longest snowcover of at least two inches in Carbondale was 53 days during the 1978-1979 winter.

Summer day temperatures are usually in the high 80s/low 90s, with nighttime lows about 22F lower. Humidities are relatively high; comfort is often impaired. Winter highs are generally in the 40s and low 50s.

COMMENTS CONCERNING WEATHER RECORDS

Earliest weather records in the Midwest generally began in the mid-1800s. The first official governmental action concerning weather observations was inaugurated under the Surgeon General of the Army in 1814, when all hospital surgeons were asked to keep a weather diary. Systematic observations began under that program in 1819. The Smithsonian Institution acquired the meteorological observing program in 1848, under the direction of James P. Espy and Joseph Henry. For the first time in the U.S., observers were provided with instruments. By 1850,

301 sites were taking routine weather observations in the country. An additional 200 were added within the next decade. In 1870, military posts were directed to regularly observe the weather, and the U.S. Weather Bureau (forerunner of the National Weather Service), became a new agency of the U.S. Signal Service in 1871 and began managing the network. In 1873, all meteorological work was directed solely by the Signal Service. In 1891 the U.S. Weather Bureau was transferred to the U.S. Dept. of Agriculture, and in 1940, transferred to the Dept. of Commerce, its present home. Today, daily observations of temperature and precipitation are available from about 200 sites in Illinois, most of those records beginning in the 1880s or 1890s.

Atlantic storm warnings were first made in 1885, followed by cold wave warnings with 3 days lead the following year. Twenty-four hour hurricane observing and warning service began in 1935. Five-day forecasts were first issued in 1940, 30- and 90-day outlooks began in the 1950s, and outlooks for the coming year began in January 1995.

Temperature and precipitation records are not likely homogeneous over long periods of record. For example, (1) few observing sites have remained in the same location during the period of record, (2) liguid-in-glass thermometers are currently being replaced with electronic thermometers, and (3)whereas raingages with small catchments were preferred during the early/mid-1800s, today the standard raingage has a diameter of 8 inches, exhibiting a different catchment efficiency.

Daily mean temperatures are currently based on the average of the daily maximum and minimum. Maximum/minimum thermometers were not commonly available until the late 1800s, therefore prior to that time daily mean temperatures were defined as either (1) the average of the 0700, 1400 and 2100 observations (suggested by the Mannheim Meteorological Society), or the average of the 0700, 1400, and twice the 2100 temperatures, the latter more closely approximating the average of all 24 hourly readings of a day.

The Carbondale weather station is one of about 200 such observing sites in Illinois under the direction of the National Weather Service. Climatological data and information for these locations are available from either:

Illinois State Water Survey	National Climatic Data Center
ATTN: STATE CLIMATOLOGIST	Federal Building
2204 Griffith Dr.	Asheville NC 28801
Champaign IL 61820	704-271-4800
217-333-2210	

The Illinois State Water Survey has prepared climatological summaries for the following locations:

Aurora	Fairfield	Lincoln	Rockford
Champaign	Freeport	Moline	Springfield
Chicago	Harrisburg	Ottawa	Waukegan
Decatur	Hoopeston	Peoria	White Hall

Latitude N37 44
Longitude W89 10

Climatological Sunmery
means: 1961-1990 , Extrenes: 1894-1994***

Carbondale, IL
Elevation 390

	Temperatures							Ave Number of Days				Ave Degree Days			Precipitation							Snow			
	Means			Extremes**				Max		Min					Extremes			Ave Number of Days With				Extremes			
Mon	Ave Max	Ave Min	Ave Mean	High Temp	Date	Low Temp	Date	>=90	<=32	<=32	<=0	Heat	Cool	Grow	Mean	Greatest Monthly Amount	Year	Greatest Daily+ Amount	Date	>=0.1	>=0.5	>=1.0	Mean	Greatest Monthly Amount	Year	Greatest Snow Depth##	Date
Jan	39.9	19.1	29.5	76	24/1943	-25	11/1977	0	6	23	2	1,047	0	7	2.50	17.13	1950	4.78	14/1937	6	2	1	4.6	25.3	1918	20	15/1918
Feb	44.5	22.5	33.5	79	24/1982	-22	2/1951	0	4	19	1	849	0	11	2.98	7.61	1945	3.30	26/1945	5	2	1	4.2	19.8	1993	12	26/1979#
Mar	55.8	33.7	44.8	93	23/1910	-11	5/1978	0	1	13	0	565	4	74	4.58	12.00	1945	5.67	28/1977	7	3	1	2.0	19.2	1960	12	9/1960#
Apr	67.8	44.3	56.1	92	28/1915	20	1/1954	0	0	3	0	286	30	237	3.99	11.60	1983	4.94	30/1983	8	3	1	0.3	9.0	1971	6	6/1971
May	77.1	53.0	65.1	101	28/1911	29	1/1903	2	0	0	0	89	104	481	4.58	12.59	1957	5.77	22/1957	8	3	1	0.0				
Jun	85.5	62.0	73.8	106	29/1931*	39	16/1917	11	0	0	0	6	272	710	4.13	15.95	1935	5.57	21/1935	7	3	1	0.0				
Jul	89.0	66.1	77.6	112	22/1901*	42	6/1972	18	0	0	0	1	390	851	3.81	13.53	1958	3.50	25/1961	5	2	1	0.0				
Aug	87.6	62.9	75.3	113	9/1930	41	31/1915	15	0	0	0	2	327	788	4.02	11.18	1932	5.04	17/1959	6	3	1	0.0				
Sep	80.9	55.5	68.2	108	6/1925*	20	30/1899	7	0	0	0	54	161	558	3.07	9.52	1993	4.22	12/1988	5	2	1	0.0				
Oct	70.3	43.0	56.7	96	3/1922*	16	29/1952	1	0	4	0	284	30	251	2.88	10.27	1910	4.42	4/1910	5	2	1	0.0	4.0	1925	2	30/1993#
Nov	56.8	34.1	45.5	88	1/1933	-1	30/1929	0	0	13	0	561	2	78	4.04	9.56	1921	5.35	20/1991	6	3	1	0.6	7.8	1958	7	27/1980
Dec	44.1	24.5	34.3	77	3/1982	-14	22/1989	0	3	20	0	889	0	13	3.82	12.23	1982	3.57	3/1982	6	2	1	2.6	12.8	1917	9	27/1939#
Tot/Ave	66.6	43.4	55.0					54	14	95	3	4,653	1,320	4,059	44.40					74	30	12	14.3				

Heating and Cooling Degree Days based on 65F.
Growing Degree Days based on 50F.
***Data from 1894 through Aug 1903 are from Ballidayboro. No continuous observations were made until Feb 1910, when the station resumed as Carbondale.
** Temperature extremes records begin 1899
* Records also occurred on the following dates:
Jun: High Temp 19/1936
Jul: High Temp 23/1901, 28/1930, 24/1934, 25/1934, 14/1936
Sep: High Temp 5/1925, 6/1925
Oct: High Temp 5/1938

+ Calendar Day
Snowdepth records begin 1910
Records also occurred on the following dates:
Feb: Snowdepth 27/1979
Mar: Snowdepth 11/1960
Oct: Snowdepth 31/1993
Dec: Snowdepth 28,29/1939, 6,7/1950, 28/1990

Probabilities: Precipitation (in) Missing Data: 5.6%
Station: (111265) CARBONDALE_SEWAGE_PLANT Years: 1961 To 1990

	1%	5%	10%	25%	50%	75%	90%	95%	99%
Ja	0.25	0.54	0.78	1.33	2.23	3.47	4.90	5.91	8.14
Fe	0.38	0.75	1.02	1.64	2.60	3.87	5.31	6.32	8.51
Ma	0.97	1.61	2.04	2.96	4.27	5.92	7.72	8.95	11.58
Ap	0.77	1.31	1.69	2.50	3.67	5.16	6.81	7.93	10.35
Ma	0.72	1.31	1.73	2.65	4.03	5.82	7.82	9.19	12.17
Jn	1.08	1.67	2.06	2.85	3.95	5.31	6.76	7.74	9.81
Ju	0.52	0.99	1.35	2.13	3.31	4.88	6.65	7.89	10.56
Au	0.64	1.15	1.53	2.35	3.57	5.16	6.94	8.16	10.81
Se	0.19	0.48	0.73	1.36	2.45	4.00	5.85	7.18	10.13
Oc	0.00	0.00	0.62	1.23	2.15	3.40	4.84	5.86	8.10
No	0.47	0.94	1.31	2.14	3.44	5.19	7.19	8.59	11.65
De	0.48	0.95	1.31	2.12	3.37	5.05	6.96	8.29	11.19
An	24.92	30.31	33.54	37.76	42.84	48.36	53.71	57.09	63.80
Wi	2.56	3.89	4.78	6.57	9.04	12.07	15.31	17.48	22.08
Sp	5.68	7.35	8.37	10.29	12.74	15.56	18.43	20.30	24.11
Su	5.30	6.80	7.71	9.41	11.59	14.08	16.60	18.23	21.58
Fa	3.31	4.55	5.34	6.85	8.85	11.21	13.66	15.27	18.62

Growing Season Summary
Station: (111265) CARBONDALE_SEWAGE_PLANT
Years: 1961 To 1990 Missing Data: 6.3%

Base	Date of Last Spring Occurrence						Date of First Fall Occurrence					
Temp	Median	Early	90%	10%	Late	#yrs	Median	Early	10%	90%	Late	#yrs
32	4/13	3/21	3/31	5/02	5/10	28	10/11	9/21	9/29	10/28	11/06	28
30	4/10	3/21	3/30	4/28	5/05	29	10/18	9/22	10/03	11/03	11/06	23
28	4/03	3/08	3/19	4/14	4/19	29	10/27	10/03	10/08	11/12	11/16	28
24	3/25	2/11	3/04	4/10	4/11	29	11/10	10/19	10/25	11/28	12/04	28
20	3/12	2/08	2/14	3/25	3/31	28	11/20	10/19	11/03	12/05	12/31	27
16	2/26	1/14	2/08	3/13	3/25	28	12/10	11/09	11/22	12/31	1/13	27

Base	Length of Season (Days)					
Temp	Median	Shortest	10%	90%	Longest	#yrs
32	180	149	159	206	211	27
30	190	155	168	210	220	28
28	208	184	191	222	234	28
24	232	196	214	250	266	28
20	254	229	237	271	308	27
16	290	262	270	309	343	27

MAXIMUM TEMPERATURE CARBONDALE, IL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE
1899	41.0	33.2	49.9	64.4	77.5	87.7	89.9		84.6	75.5	62.4	43.7	
1900	46.1	43.1	56.7	69.3	81.2	84.8	89.0	94.1	88.0	77.8	60.3	49.5	70.0
1901	49.4	44.8	59.4	67.2	78.9	92.4	100.5	92.5	85.2	74.4	58.6	41.8	70.4
1902	45.9	39.5	59.5	68.2	83.4	86.4	92.3	90.1	78.1	73.4	61.9	42.8	68.5
1903	42.5	45.0	60.5	68.7	79.4	82.0	85.4	68.1					
1910		45.0	74.1	69.6	75.7	86.0	90.6	89.9	85.6	74.4	55.8	43.2	
1911	50.5	52.0	64.2	68.7	86.8	93.1	93.1	89.5M	88.7	70.3	52.4	47.7	71.4M
1912	35.1	40.5	50.9	71.1	81.0	82.9	91.5	89.6	86.3	74.0	58.3	48.7	67.5
1913	47.5	43.7	56.1	69.3	80.5	91.8	93.5	96.7	83.2	67.9	62.6	47.6	70.0
1914	48.4	41.4	53.8	67.9	82.2	95.0	97.7	92.2	83.3	71.7	62.3	38.2	69.5
1915	40.1	48.6	48.9	76.4	79.3	84.4	89.4	82.3M	85.4	75.5	64.1	46.0	68.4M
1916	48.4	45.3	57.3	66.0	81.3	83.0	95.2	90.3	81.6	74.3	62.7	46.9	69.4
1917	48.7	47.3	60.8	69.0	73.2	85.5	89.2	85.8	84.0	66.0	59.9	37.7	67.3
1918	29.6	51.6	68.5	65.1	83.3	90.5	93.8	95.7	77.0	75.0	57.7	53.9	70.1
1919	49.7	48.4	61.1	71.3	74.5	89.1	94.6	91.7	87.7	74.1	57.3	43.4	70.2
1920	41.3	46.8	57.4	66.0	77.5	87.1M	91.3	87.4	86.3	78.2	55.4	47.2	68.5M
1921	49.1	51.0	68.8	70.7	80.7	92.3	98.0	88.1	86.8	71.9	61.6	50.4	72.5
1922	41.9	48.6	58.1	71.8	80.9	90.7	91.1	92.7	88.5	75.6	60.9	49.7	70.9
1923	50.4	42.4	56.2	69.2	75.5	86.5	95.3	90.2	81.6	68.9	59.7	56.8	69.4
1924	38.9	46.1	49.8	71.6	73.9	86.2	88.9	93.2	80.2	81.0	60.5	44.3	67.9
1925	44.5	55.3	64.6	77.2	78.1	91.7	91.5	94.6	90.7	61.2	56.4	45.3	70.9
1926	45.0	51.4	52.3	65.6	82.7	87.4	95.8	91.5	85.5	70.8	52.9	43.6	68.7
1927	42.9	56.4	58.5	69.5	75.8	83.1	89.6	84.9	88.6	78.2	61.2	45.5	69.5
1928	44.6	46.2*	57.6	64.8	78.8	80.3	91.6	89.2	81.5	74.6	56.9	49.2	67.9**
1929	42.6	39.9	63.9	70.8	75.6	84.9	91.5	89.2	82.4	70.4	53.1	47.8	67.7
1930	37.5	56.1	58.3	72.7	79.5	88.4	97.5	95.5	85.0	69.7	57.7	45.3	70.3
1931	49.1	53.5	51.5	69.8	75.0	91.5	94.3	88.4	88.8	75.6	64.5	54.7	71.4
1932	51.7	57.3	52.1	70.6	81.1	90.0	94.5	91.0	81.7	69.9	52.9	44.3	69.8
1933	52.6	45.1	56.3	66.7	77.2	92.3	89.9	89.2	87.0	69.9	57.3	51.9	69.6
1934	48.0	43.6	54.7	68.8	81.6	92.6	97.8	89.5	78.7	76.3	62.9	43.6	69.8
1935	46.7	50.2	64.0	64.6	73.1	81.5	93.0	91.5	85.5	72.6	55.7	39.5	68.2
1936	37.6	39.6	64.8	65.8	84.0	93.0	97.7	99.7	86.3	70.3	55.8	50.7	70.4
1937	44.9	45.5	54.3	67.9	78.8	86.0	89.2	94.5	82.7	68.4	54.8	41.3	67.4
1938	44.3	56.0	66.7	71.5	79.2	84.9	92.5	93.4	86.3	80.8	61.7	47.9	72.1
1939	50.5	47.9	62.2	65.2	81.1	86.5	92.5	90.6	93.8	76.0	55.7	49.9	71.0
1940	30.1	43.2	56.4	67.8	76.5	87.6	92.5	92.3	88.2	80.4	55.9	52.2	68.6
1941	43.7	41.1	50.6	72.1	81.9	89.5	93.8	92.7	85.6	73.5	54.9	48.4	69.0
1942	41.9	41.6	58.4	70.1	76.0	85.4	89.7	85.2	80.2	71.1	57.8	41.6	66.6
1943	44.4	51.8	51.8	66.0	75.9	88.1	91.4	91.1	77.6	69.2	54.7	41.6	67.0
1944	46.2	50.4	54.6	65.5	81.8	89.7	92.6	88.2	80.8	72.8	55.0	38.0	68.0
1945	38.5	45.6	65.4	67.6	71.7	81.0	86.9	87.0	80.9	68.2	56.6	39.1	65.7
1946	44.4	52.4	69.0	72.3	72.5	87.5	91.1	83.7	81.6	75.4	60.1	52.1	70.2
1947	45.8	39.8	48.4	67.6	76.5	83.8	85.3	94.6	82.6	79.0	50.5	48.1	66.8
1948	36.5	46.4*	56.6*	72.8	75.9	86.5	89.7*	88.2M	83.0*	68.6*	59.6	48.9	67.7M**
1949	46.7	52.0	57.2M	67.8	81.0M	86.0	89.9	87.9	77.3	72.4	60.7	52.3M	69.3M
1950	51.8	49.2	55.8	65.0	78.5	85.7	86.3	83.1	77.2	77.4	51.9	41.3	66.9

* Carbondale data missing, Du Quoin data substituted.

** Annual average calculated from Carbondale and Du Quoin data

x Carbondale and Du Quoin data missing, Anna data substituted.

xx Annual average calculated from Carbondale and Anna data.

M Monthly- fewer than 4 days missing. Annually- one or more months incomplete.

Data from 1899 through Aug 1903 are from Hallidayboro. No continuous observations were made until Feb 1910, when the station resumed as Carbondale.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE
1951	44.9	48.2	55.7	64.9	81.8	85.3	89.0	89.5	79.5	74.4	50.6	47.1	67.6
1952	50.4	53.2	56.9	68.1	78.5	95.5	93.8	90.0	84.5	70.5	58.6	46.6	70.6
1953	46.7	54.0	61.7	65.6	79.3*	93.9	92.6	91.7	89.6	76.5	61.1	48.4M	71.8M**
1954	46.0	58.2M	57.1	75.8	73.4	89.7	94.7	92.7	87.9	70.6M	58.7	46.4	70.9M
1955	45.1	48.3	59.3	74.5	79.5	82.7	91.5*	91.7M	88.7	72.0	56.2M	43.7	69.4M**
1956	41.7	49.7	58.3M	67.5	79.5*	86.8	88.7	89.2	83.9	77.4	58.8	53.1M	69.6M**
1957	38.7	53.0	56.3	70.8	77.8	86.0	89.7	90.1	81.6	67.2	55.6	52.5	68.3
1958	41.5	39.0	48.8	68.3	78.5	84.3	86.8	87.9	80.4	72.4	62.5	42.1	66.0
1959	41.8	48.3	60.0	70.4	81.3	85.7	88.6	89.8	83.6	71.2	52.1	49.6	68.5
1960	44.0	41.9	42.5	73.1	76.3	86.3	88.0	90.6	87.9	72.9	59.1	41.5	67.0
1961	42.5	52.2	58.8	63.3M	74.1	84.7	89.1	87.0	85.0	74.4	56.7	43.9	67.6M
1962	40.2	51.4	52.0	67.0	87.3	86.0	90.4	90.1	78.3	73.8	56.5	42.9*	68.0**
1963	35.9*	41.6M	62.3*	72.3	77.5	88.7	88.4	88.7	85.2	83.4M	61.4	36.5	68.5M**
1964	47.6	46.7	58.8	71.4	81.8	88.1	90.2	89.9	83.7	71.5	61.7	45.5	69.7
1965	46.6	48.6	48.1	73.7	84.2	86.9	89.8M	88.8	81.7	71.4	63.6	52.7	69.7M
1966	37.3	44.0	60.0	65.6	77.5	87.0	94.6	86.7	77.8	68.8	59.6	45.4	67.0
1967	48.5	46.2	62.8	72.9	76.4	85.2*	86.5	84.8	78.8	71.1	53.4	46.9	67.8**
1968	40.8	41.5	59.5	70.6	76.2M	88.1	89.5	88.9	81.9	71.5	54.0	44.1	67.2M
1969	41.8	44.9	51.9	69.8	79.0	87.0	90.9	88.3	81.2	69.9	55.2	41.1	66.8
1970	37.6	45.0	51.1	71.9	81.2	83.7	88.9	87.9	85.4	69.1	55.9	50.4	67.3
1971	40.1M	45.8	55.2	70.1	75.5	89.7	87.1	85.8	82.9	76.8	58.0x	52.7x	68.3Mxx
1972	42.1M*	45.2M*	58.4M*	69.9	79.6	87.7	87.3M	87.0	81.3	67.0	48.9M	40.3M	66.2M**
1973	41.3M	45.4	60.8	62.4	72.9	86.4	91.1M*	89.4M*	81.6	74.6	58.9	43.7	67.4M**
1974	41.4	47.9	59.5	68.4	76.9	80.8	90.8	85.7	73.2	70.4M	56.9	44.4	66.4M
1975	45.9	43.8	50.4	65.6	79.4	85.0	87.6	86.1	75.4	72.3	59.9M	45.4	66.4M
1976	40.0	54.1	63.3	71.3M	73.0	82.1	87.1	85.1	80.7	65.2	50.6	42.3	66.2M
1977	25.9	45.4	61.9	73.2	82.7	86.0	90.3	87.5	82.1	68.1	56.0	41.1	66.7
1978	31.3	31.9	47.6	69.9	75.1	85.7	89.7	89.2	84.2	67.6	59.3	44.9	64.7
1979	28.5	36.1	53.1	63.4	73.4	84.3	85.4	84.0	80.0	70.5	54.3	45.9	63.2
1980	41.4M	38.4	49.9	66.1	77.4	86.4	94.1	94.3	84.6	69.0	55.6	46.0	66.9M
1981	41.5	49.2	56.4	74.8	71.3	84.9	88.4	85.9	79.8	66.6	60.1	42.0	66.7
1982	35.4	40.4	59.5	63.7	81.8	81.4	88.7	85.6	78.6	70.7	56.3	50.3	66.0
1983	40.4	48.0	54.2	58.4	73.2	84.8	91.8	94.8	84.2	69.5	58.2	30.0*	65.6**
1984	36.3	50.3	47.2	63.5	73.7*	89.0	88.0	88.2	78.1*	70.3*	54.3*	51.5*	65.9**
1985	31.4*	40.1*	59.8	70.4	77.7*	82.1	88.7	84.0	80.8	71.9*	58.1	38.0*	65.3**
1986	44.9*	46.5*	60.5*	71.4*	77.5*	87.5*	92.2*	84.4*	83.4	70.1*	52.1	43.8	67.9**
1987	39.9	48.6	59.8	68.2	83.8	87.6	88.9	90.7	84.0	65.1	61.4	47.0	68.8
1988	38.0	42.0	56.7	69.0	80.0	90.2	89.7	92.9	81.0	64.3	57.5	48.1	67.5
1989	49.4	38.9	54.9	68.2	74.2	82.9	87.2	88.3	78.1	72.6	57.2	34.3	65.5
1990	51.3	51.6	58.5	65.2	72.2	85.7	88.5	85.4	83.0	68.7	63.3	48.2	68.5
1991	36.5	49.5	59.2	69.9	80.9*	87.6	91.3	90.8	82.4	71.8	50.3	47.5	68.1**
1992	42.7	52.8	56.5	67.2	73.9	81.6	87.2	82.3	77.5	68.5	52.9	43.5	65.6
1993	41.0	42.4	49.8	61.7	74.6	82.5	89.7	87.5	75.3	65.4	50.9	43.1	63.7
1994	34.3	44.2	55.9	67.4	73.5	85.3	86.0	83.3	77.2	70.2	60.7	48.4	65.5

* Carbondale data missing, Du Quoin data substituted.

** Annual average calculated from Carbondale and Du Quoin data

x Carbondale and Du Quoin data missing, Anna data substituted.

xx Annual average calculated froa Carbondale and Anna data.

M Monthly- fever than 4 days missinq. Annually- one or more months incomplete.

Data from 1899 through Aug 1903 are froa Rallidayboro. Ho continuous observations were made until Feb 1910, when the station resumed as Carbondale.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE
1899	24.5	12.4	30.7	44.8	57.0	64.6	63.4		55.2	46.6	40.8	24.0	
1900	25.3	16.0	25.9	38.0	54.9	63.9	68.5	70.4	63.1	46.7	34.6	27.2	44.5
1901	26.8	22.3	35.9	41.5	51.0	61.3	68.5	62.8	55.1	44.1	30.6	21.3	43.4
1902	23.2	18.5	38.3	42.6	59.4	62.7	65.6	62.7	52.7	47.2	42.7	27.0	45.2
1903	24.1	26.6	39.9	44.6	56.9	56.8	66.6M	91.1					
1910		21.5	45.0	45.0~	51.5	58.0	68.3	62.8	60.1	47.0	30.1	22.2	
1911	30.1	32.1	35.2	44.9	56.7	66.3	66.3	66.6M	66.4	50.2	33.0	32.9M	48.4M
1912	13.9	21.1	30.0	47.8	57.2	57.6	67.7	64.7	57.5	44.8M	35.4	27.1	43.7M
1913	28.1	23.8	32.5	43.8	53.9	61.7	67.6	66.0	58.4	45.9	43.8	32.9	46.5
1914	32.6	22.0	34.1	46.6	53.9	67.5	68.2	67.2	59.0	48.9	37.5	24.6	46.8
1915	24.5	34.3	30.3	48.4	55.3	61.8	65.5	61.6	60.4	47.2	40.4	28.1	46.5
1916	26.6	26.2	32.2	45.1	57.2	60.6	69.2	69.5	56.8	44.0	36.5	24.1	45.7
1917	25.8	21.8	37.0	44.7	48.2	62.0M	67.6	64.7	55.0	39.2	34.5	16.1	43.1M
1918	9.0	27.4	39.8	43.8	59.4	64.3	62.0	69.8	49.6	50.4	36.4	35.3	45.6
1919	27.6	29.0	35.9	47.8	54.0	66.5	67.8	63.7	58.8	52.3	34.5	23.8	46.8
1920	22.9	27.2	36.3	42.7	54.9	60.3	63.8	61.5	58.5	47.3	33.1M	31.3	45.0M
1921	31.7	32.8	44.3	46.6	54.2	65.8	67.9	64.3	64.5	43.0	37.1	31.2	48.6
1922	22.1	30.0	38.2	46.8	56.3	63.2	64.2	62.1	56.4	44.7	37.0	27.7	45.7
1923	31.0	23.7	32.1	42.9	52.2	62.8	65.2	65.7	57.6	40.6	35.5	35.8	45.4
1924	18.6	26.1	31.5	47.3	49.0	64.0	61.6	65.5	52.7	45.6	37.0	23.5	43.5
1925	24.9	34.4M	38.1	50.5	49.0	66.0	66.5	61.4	65.4	43.8	35.1	25.5	46.7M
1926	25.8	33.3	31.9	40.0	55.6	59.3	65.8	67.2	61.9	48.6M	31.9	27.0	45.7M
1927	25.2	35.0	38.8	49.9	56.4	60.9	64.0	59.3	60.6	47.2	40.4	24.6	46.9
1928	26.6	28.5*	35.0	42.0	53.3	59.7	67.6	66.9	50.9	50.0	39.0	28.8	45.7**
1929	21.6	20.6	41.3	49.2	52.0	60.0	67.5	61.0	57.1	47.0	33.0	30.0	45.0
1930	19.6	35.9	33.8	48.9	55.3M	60.5	67.2	63.6	61.1	44.7	37.3	28.3	46.4M
1931	29.0	32.2	32.4	44.7	51.3	64.8	67.7	64.7	63.8	51.1	46.5	37.0	48.8
1932	34.0M	36.4	31.6	47.1	53.6	64.8	68.0	65.6	57.2	45.5	32.0	27.0	46.9M
1933	34.2	26.5	35.9	46.3	59.2	63.8	67.7	63.0	64.4	45.7	35.1	32.9	47.9
1934	30.0	22.1	32.6	45.5	54.3	67.0	71.0	67.9	56.9	47.2	40.1	28.3	46.9
1935	28.1	31.8	44.2	44.9	53.9	61.3	69.3	67.5	54.9	48.3	36.8	23.6	47.1
1936	19.8	19.1	39.9	41.2	55.3	60.8	71.1	70.1	64.5	47.6	31.7	30.5	46.0
1937	27.2	28.5	32.1	46.2	55.5	64.1	64.4	67.4	55.7	45.5	32.1	27.2	45.5
1938	26.6	37.2	44.3	47.9	56.3	62.4	67.2	68.3	58.1	44.0	35.0	26.7	47.8
1939	31.4	24.8	38.6	44.1	56.0	64.7	66.0	62.3	59.6	45.7	30.5	28.0	46.0
1940	9.2	27.1	33.8	43.8	49.7	61.2	62.5	63.0	49.9	45.0	32.2	35.6	42.8
1941	29.4	25.6	31.4	50.8	57.6	66.1	69.4	68.4	60.9	53.9	38.0	34.0	48.8
1942	23.0	27.7	38.1	48.7	54.8	65.3	69.0	65.3	58.0	48.2	40.5	27.8	47.2
1943	25.1	29.4	30.9	44.9	57.7	67.8	68.9	68.5	55.5	45.9	32.6	26.2	46.1
1944	28.5	31.0	33.8	45.8	60.1	67.0	65.4	67.2	59.7	45.8	40.6	23.5	47.4
1945	24.2	28.0	44.8	47.9	51.5	62.4	64.5	65.1	60.6	46.1	36.9	21.6	46.1
1946	27.2	30.9	46.8	49.3	54.3	64.8	66.8	64.0	58.1	48.5	40.0	34.5	48.8
1947	31.3	21.2	29.2	46.9	53.9	64.0	61.3	70.4	57.0	50.4	34.5	27.7	45.7
1948	16.4	26.0*	36.0*	48.5	51.6	60.5	67.4*	62.7	59.8*	41.6*	37.4M	32.2	45.0M**
1949	30.5	29.7	36.2M	43.7	54.8M	65.1	70.2	64.1	50.5	49.6	35.4	31.0	46.7M
1950	32.4	30.5	33.5	41.9	56.8	62.8	62.4	62.4	58.1	50.8	30.8	22.1	45.4

.* Carbondale data missing, Du Quoin data substituted.

. ** Annual average calculated from Carbondale and Du Quoin data.

x Carbondale and Du Quoin data missinq, Anna data substituted.

xx Annual average calculated from Carbondale and Anna data.

M Monthly- fewer than 4 days missinq. Annually- one or lore nonths incomplete.

Data from 1899 through Aug 1903 are from Hallidayboro. Ho continuous observations were nade until Feb 1910, when the station resumed as Carbondale.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE
1951	26.0	26.6	33.8	42.3	51.7	63.4	67.0	63.8	54.0	46.2	29.7	28.5	44.4
1952	30.6	32.3	34.1	43.3	53.7M	67.5	66.7	63.3	51.0	36.0	34.4	31.1	45.3M
1953	30.9	30.3	37.6	39.8M	56.6*	67.1	65.3	60.2	52.7	41.4	30.0	25.0M	44.7M**
1954	24.0	32.7	32.6	49.1	48.3	63.0M	68.4	67.6	55.2M	45.3M	32.5	29.5	45.7M
1955	25.2	28.2	36.6	49.8	55.2	58.2	70.6*	64.3	56.1	44.6	33.2	24.0	45.5**
1956	20.6	33.2	35.5	41.0M	56.9*	61.6	66.4	65.3	53.2	46.1M	34.8	34.4M	45.8M**
1957	22.5	33.4	35.3	49.2	56.6	64.4	66.3	62.1	57.5	41.1	35.4	34.1	46.5
1958	24.9	18.1	32.4	44.9	53.7	60.0M	68.2	65.7	57.3	43.0	37.3	22.4	44.0M
1959	21.6	27.4	34.6	45.8	59.5	61.9	63.2	67.3	57.5	45.5	29.0	32.7	45.5
1960	29.4	25.8	22.1	46.1	50.8	61.5	63.6	65.4	58.6	45.5	32.4M	23.0	43.7M
1961	18.9	29.4	40.2	42.0	49.4	60.2	66.2	63.2	59.3	46.6	37.0	27.5	45.0
1962	21.2	30.2	32.9	42.9	61.8	63.1	66.2	62.4	56.1	50.8	33.8	22.9*	45.4**
1963	15.2*	19.5	38.9*	47.9	53.5	62.7	65.9	63.5	53.7	47.9M	36.0M	16.8	43.5M**
1964	25.8	25.1	35.2	50.5	56.7	64.7	66.2	63.5	56.9	39.0	36.8	28.3	45.7
1965	25.9	25.5	28.5	50.0	58.8	63.4	65.4M	63.5	59.6	43.7	40.4	34.3	46.6M
1966	19.5	26.1	36.7	45.8	51.6	60.1	69.5	62.5	55.6	41.8	38.3	29.1	44.7
1967	28.8	23.5	41.0	50.5	52.5M	63.3*	64.0	59.2	54.2	47.3	34.2	29.4	45.7M**
1968	22.9	21.9	36.0	46.3	53.1M	64.6	66.7	66.9	56.5	45.7	38.5	26.8	45.5M
1969	25.2	29.9	27.8	47.0	54.6	64.2	70.0	63.2	57.0	45.9	32.7	26.5	45.3
1970	16.1	25.0	34.0	48.2	57.1	63.0	65.1	66.8	63.7	47.8	35.6	31.0	46.1
1971	22.4	27.5	32.9	42.6	51.0	67.4	65.9	63.8	62.1	52.9	37.4x	36.0x	46.8xx
1972	20.8M*	25.0M*	34.3M*	45.7	53.7	58.5	64.3	63.5	63.0	47.3	35.5	24.8	44.7M**
1973	23.8	24.6	41.9	45.6	51.5	63.9	66.7M*	64.4M*	60.8	47.1	38.9	26.5	46.3M**
1974	25.9	27.1	37.6	44.2	54.8	58.4	66.0	63.4	52.0	41.7	35.8	27.6	44.5
1975	25.6	26.4	29.7	41.9	55.5	62.6	63.9	64.7	51.5	42.3	36.3	27.8	44.0
1976	17.8	29.6	40.0	43.9	47.6	60.1	64.2	58.8	49.4	35.4	22.2	16.7	40.5
1977	2.5	19.8	37.5	46.5	56.6	63.5	68.8	65.1	59.6	40.5	38.7	23.3	43.5
1978	11.8	9.7	29.3	46.3	52.3	61.7	66.8	63.5	56.7	37.7	36.8	25.8	41.5
1979	9.8	12.6	35.4M	44.7	51.4	62.4	66.7	64.1	51.0	41.1	30.7	25.0	41.2M
1980	23.5M	16.5	29.4	41.6	51.3	61.1	68.5	67.0	57.1	38.5	31.2	25.2	42.6M
1981	17.8	23.9	30.8	50.2	49.0	64.8	67.6	62.5	51.8	41.6	34.8	21.2	43.0
1982	12.8	17.8	34.4	38.1	56.0	58.4	66.9	60.1	52.8	41.2	35.1	34.5	42.3
1983	25.0	26.1	36.0	39.6	52.4	59.5	66.8	64.6	53.3	44.0	35.5	15.5*	43.2**
1984	12.2	25.6	29.1	43.1	51.3*	64.2	61.2	60.4	54.9*	52.0*	32.4*	32.8*	43.3**
1985	13.5*	19.3*	35.2	45.6	54.5*	58.1	61.5	59.3	51.3	50.4*	36.1	18.5M*	41.9M**
1986	22.1*	29.6*	36.4*	48.0*	57.7*	66.0*	69.2*	61.4*	58.2	47.9*	34.2	25.9	46.4**
1987	22.6	26.7	35.2	40.3	57.4	63.8	65.0	62.1	52.8	36.7	38.1	29.5	44.2
1988	19.5	21.1	33.4	39.7	49.2	59.0	66.1	66.0	54.0	36.4	33.1	21.9	41.6
1989	27.6	19.9	32.6	41.1	47.8	60.5	66.0	62.4	52.2	42.6	33.7	10.4	41.4
1990	29.2	30.8	37.9	42.1	52.8	63.8	67.5	62.0	56.9	38.4	35.5	24.0	45.1
1991	21.4	26.0	35.2	46.2	62.8*	64.3	65.5	61.7	54.0	41.6	33.2	29.2	45.1**
1992	26.6	30.8	34.3	44.4	51.1	59.0	68.5	59.0	55.1	40.9	38.0	26.2	44.5
1993	24.9	20.9	31.6	40.3	54.0	62.2	71.1	65.9	54.3	41.8	33.8	28.9	44.1
1994	18.4	24.6	31.1	44.1	47.9	65.4	65.3	60.3	51.9	43.6	40.8	30.5	43.7

* Carbondale data nissing, Du Quoin data substituted.

** Annual average calculated fron Carbondale and Du Quoin data.

x Carbondale and Du Quoin data missing, Anna data substituted.

xx Annual average calculated from Carbondale and Anna data.

M Monthly- fewer than 4 days nissing. Annually- one or more months incomplete.

Data from 1899 through Aug 1903 are fron Hallidayboro. Ho continuous observations were Bade until Feb 1910, when the station resumed as Carbondale.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE
1899	32.8	22.8	40.3	54.6	67.2	76.2	76.6		69.9	61.0	51.6	33.8	
1900	35.7	29.6	41.3	53.6	68.0	73.8	89.0	82.2	75.6	62.2	47.4	38.4	58.1
1901	38.1	33.6	47.6	54.4	65.0	76.8	84.5	77.6	70.2	59.2	44.6	31.6	56.9
1902	34.6	29.0	48.9	55.4	71.6	74.4	79.0	76.4	65.4	60.3	52.3	34.9	56.9
1903	33.3	35.8	50.2	56.7	68.2	69.4	76.0M	79.6					
1910		33.3	59.6	57.3	63.6	72.0	79.5	76.4	72.9	60.7	43.0	32.7	
1911	40.3	42.1	49.7	56.8	71.8	79.7	79.7	78.1M	77.6	60.3	42.7	40.3M	59.9M
1912	24.5	30.8	40.5	59.5	69.1	70.3	79.6	77.2	71.9	59.4M	46.9	37.9	55.6M
1913	37.8	33.8	44.3	56.6	67.2	76.8	80.6	81.4	70.8	56.9	53.2	40.3	58.3
1914	40.5	31.7	44.0	57.3	68.1	81.3	83.0	79.7	71.2	60.3	49.9	31.4	58.2
1915	32.3	41.5	39.6	62.4	67.3	73.1	77.5	72.0M	72.9	61.4	52.3	37.1	57.5M
1916	37.5	35.8	44.8	55.6	69.3	71.8	82.2	79.9	69.2	59.2	49.6	35.5	57.5
1917	37.3	34.6	48.9	56.9	60.7	73.8M	78.4	75.3	69.5	52.6	47.2	26.9	55.2M
1918	19.3	39.5	54.2	54.5	71.4	77.4	77.9	82.8	63.3	62.7	47.1	44.6	57.9
1919	38.7	38.7	48.5	59.6	64.3	77.8	81.2	77.7	73.3	63.2	45.9	33.6	58.5
1920	32.1	37.0	46.9	54.4	66.2	73.7M	77.6	74.5	72.4	62.8	44.3M	39.3	56.8M
1921	40.4	41.9	56.6	58.7	67.5	79.1	83.0	76.2	75.7	57.5	49.4	40.8	60.6
1922	32.0	39.3	48.2	59.3	68.6	77.0	77.7	77.4	72.5	60.2	49.0	38.7	58.3
1923	40.7	33.1	44.2	56.1	63.9	74.7	80.3	78.0	69.6	54.8	47.6	46.3	57.4
1924	28.8	36.1	40.7	59.5	61.5	75.1	75.3	79.4	66.5	63.3	48.8	33.9	55.7
1925	34.7	44.9M	51.4	63.9	63.6	78.9	79.0	78.0	78.1	52.5	45.8	35.4	58.9M
1926	35.4	42.4	42.1	52.8	69.2	73.4	80.8	79.4	73.7	59.7M	42.4	35.3	57.2M
1927	34.1	45.7	48.7	59.7	66.1	72.0	76.8	72.1	74.6	62.7	50.8	35.1	58.2
1928	35.6	37.4*	46.3	53.4	66.1	70.0	79.6	78.1	66.2	62.3	48.0	39.0	56.8**
1929	32.1	30.3	52.6	60.0	63.8	72.5	79.5	75.1	69.8	58.7	43.1	38.9	56.4
1930	28.6	46.0	46.1	60.8	67.4M	74.5	82.4	79.6	73.1	57.2	47.5	36.8	58.3M
1931	39.1	42.9	42.0	57.3	63.2	78.2	81.0	76.6	76.3	63.4	55.5	45.9	60.1
1932	42.9M	46.9	41.9	58.9	67.4	77.4	81.3	78.3	69.5	57.7	42.5	35.7	58.4M
1933	43.4	35.8	46.1	56.5	68.2	78.1	78.8	76.1	75.7	57.8	46.2	42.4	58.8
1934	39.0	32.9	43.7	57.2	68.0	79.8	84.4	78.7	67.8	61.8	51.5	36.0	58.4
1935	37.4	41.1	54.1	54.8	63.5	71.4	81.2	79.5	70.2	60.5	46.3	31.6	57.6
1936	28.7	29.4	52.4	53.5	69.7	76.9	84.4	84.9	75.4	59.0	43.8	40.6	58.2
1937	36.1	37.0	43.2	57.1	67.2	75.1	76.8	81.0	69.2	57.0	43.5	34.3	56.5
1938	35.5	46.7	55.5	59.7	67.8	73.7	79.9	80.9	72.2	62.4	48.4	37.3	60.0
1939	41.0	36.4	50.4	54.7	68.6	75.6	79.3	76.5	76.7	60.9	43.1	39.0	58.5
1940	19.7	35.2	45.1	55.8	63.1	74.4	77.5	77.7	69.1	62.7	44.1	43.9	55.7
1941	36.6	33.4	41.0	61.5	69.8	77.8	81.6	80.6	73.3	63.7	46.5	41.2	58.9
1942	32.5	34.7	48.3	59.4	65.4	75.4	79.4	75.3	69.1	59.7	49.2	34.7	56.9
1943	34.8	40.6	41.4	55.5	66.8	78.0	80.2	79.8	66.6	57.6	43.7	33.9	56.6
1944	37.4	40.7	44.2	55.7	71.0	78.4	79.0	77.7	70.3	59.3	47.8	30.8	57.7
1945	31.4	36.8	55.1	57.8	61.6	71.7	75.7	76.1	70.8	57.2	46.8	30.4	56.0
1946	35.8	41.7	57.9	60.8	63.4	76.2	79.0	73.9	69.9	62.0	50.1	43.3	59.5
1947	38.6	30.5	38.8	57.3	65.2	73.9	73.3	82.5	69.8	64.7	42.5	37.9	56.3
1948	26.5	36.2*	46.3*	60.7	63.8	73.5	78.6*	75.5M	71.4*	55.1*	48.5M	40.6	56.4M**
1949	38.6	40.9	46.7M	55.8	67.9M	75.6	80.1	76.0	63.9	61.0	48.1	41.7M	58.0M
1950	42.1	39.9	44.7	53.5	67.7	74.3	74.4	72.8	67.7	64.1	41.4	31.7	56.2

* Carbondale data missing, Du Quoin data substituted.

** Annual averaqe calculated from Carbondale and Du Quoin data.

x Carbondale and Du Quoin data lissinq, Anna data substituted.

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M Monthly- fewer than 4 days lissinq. Annually- one or more months incomplete.

Data from 1899 throuqh Aug 1903 are from Hallidayboro. Ho continuous observations were Bade until Feb 1910, when the station resumed as Carbondale.

AVERAGE TEMPERATURE CARBONDALE, IL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL AVERAGE
1951	35.5	37.4	44.8	53.6	66.8	74.4	78.0	76.7	66.8	60.3	40.2	37.8	56.0
1952	40.5	42.8	45.5	55.7	66.1M	81.5	80.3	76.7	67.8	53.3	46.5	38.9	58.0M
1953	38.8	42.2	49.7	52.7M	68.0*	80.5	79.0	76.0	71.2	59.0	45.6	36.7M	58.3M**
1954	35.0	45.5M	44.9	62.5	60.9	76.4M	81.6	80.2	71.6M	58.0M	45.6	38.0	58.4M
1955	35.2	38.3	48.0	62.2	67.4	70.5	81.1*	78.0M	72.4	58.3	44.7M	33.9	57.5M**
1956	31.2	41.5	46.9M	54.3M	68.2*	74.2	77.6	77.3	68.6	61.8M	46.8	43.8M	57.7M**
1957	30.6	43.2	45.8	60.0	67.2	75.2	78.0	76.1	69.6	54.2	45.5	43.3	57.4
1958	33.2	28.6	40.6	56.6	66.1	72.2M	77.5	76.8	68.9	57.7	49.9	32.3	55.0M
1959	31.7	37.9	47.3	58.1	70.4	73.8	75.9	78.6	70.6	58.4	40.6	41.2	57.0
1960	36.7	33.9	32.3	59.6	63.6	73.9	75.8	78.0	73.3	59.2	45.8M	32.3	55.4M
1961	30.7	40.8	49.5	52.7M	61.8	72.5	77.7	75.1	72.2	60.5	46.9	35.7	56.3M
1962	30.7	40.8	42.5	55.0	74.6	74.6	78.3	76.3	67.2	62.3	45.2	32.9*	56.7**
1963	25.5*	30.6M	50.6*	60.1	65.5	75.7	77.2	76.1	69.5	65.7M	48.7M	26.7	56.0M**
1964	36.7	35.9	47.0	61.0	69.3	76.4	78.2	76.7	70.3	55.3	49.3	36.9	57.8
1965	36.3	37.1	38.3	61.9	71.5	75.2	77.6M	76.2	70.7	57.6	52.0	43.5	58.2M
1966	28.4	35.1	48.4	55.7	64.6	73.6	82.1	74.6	66.7	55.3	49.0	37.3	55.9
1967	38.7	34.9	51.9	61.7	64.5M	74.3*	75.3	72.0	66.5	59.2	43.8	38.2	56.8M**
1968	31.9	31.7	47.8	58.5	64.7M	76.4	78.1	77.9	69.2	58.6	46.3	35.5	56.4M
1969	33.5	37.4	39.9	58.4	66.8	75.6	80.5	75.8	69.1	57.9	44.0	33.8	56.1
1970	26.9	35.0	42.6	60.1	69.2	73.4	77.0	77.4	74.6	58.5	45.8	40.7	56.8
1971	31.3M	36.7	44.1	56.4	63.3	78.6	76.5	74.8	72.5	64.9	47.7x	44.4x	57.6Mxx
1972	31.4M*	35.1M*	46.4M*	57.8	66.7	73.1	75.8M	75.3	72.2	57.2	42.2M	32.6M	55.5M**
1973	32.6M	35.0	51.4	54.0	62.2	75.2	78.9M*	76.9M*	71.2	60.9	48.9	35.1	56.9M**
1974	33.7	37.5	48.6	56.3	65.9	69.6	78.4	74.6	62.6	56.1M	46.4	36.0	55.5M
1975	35.8	35.1	40.1	53.8	67.5	73.8	75.8	75.4	63.5	57.3	48.1M	36.6	55.2M
1976	28.9	41.9	51.7	57.6M	60.3	71.1	75.7	72.0	65.1	50.3	36.4	29.5	53.4M
1977	14.2	32.6	49.7	59.9	69.7	74.8	79.6	76.3	70.9	54.3	47.4	32.2	55.1
1978	21.6	20.8	38.5	58.1	63.7	73.7	78.3	76.4	70.5	52.7	48.1	35.4	53.2
1979	19.2	24.4	44.3M	54.1	62.4	73.4	76.1	74.1	65.5	55.8	42.5	35.5	52.3M
1980	32.5M	27.5	39.7	53.9	64.4	73.8	81.3	80.7	70.9	53.8	43.4	35.6	54.8M
1981	29.7	36.6	43.6	62.5	60.2	74.9	78.0	74.2	65.8	54.1	47.5	31.6	54.9
1982	24.1	29.1	47.0	50.9	68.9	69.9	77.8	72.9	65.7	56.0	45.7	42.4	54.2
1983	32.7	37.1	45.1	49.0	62.8	72.2	79.3	79.7	68.8	56.8	46.9	22.8*	54.4**
1984	24.3	38.0	38.2	53.3	61.7*	76.6	74.6	74.3	66.5*	61.2*	43.4*	42.2*	54.5**
1985	22.5*	29.7*	47.5	58.0	66.1*	70.1	75.1	71.7	66.1	61.2*	47.1	28.3M*	53.6M**
1986	33.5*	38.1*	48.5*	59.7*	67.6*	76.8*	80.7*	72.9*	70.8	59.0*	43.2	34.9	57.1**
1987	31.3	37.7	47.5	54.3	70.6	75.7	77.0	76.4	68.4	50.9	49.8	38.3	56.5
1988	28.8	31.6	45.1	54.4	64.6	74.6	77.9	79.5	67.5	50.4	45.3	35.0	54.6
1989	38.5	29.4	43.8	54.7	61.0	71.7	76.6	75.4	65.2	57.6	45.5	22.4	53.5
1990	40.3	41.2	48.2	53.7	62.5	74.8	78.0	73.7	70.0	53.6	49.4	36.1	56.8
1991	29.0	37.8	47.2	58.1	71.9*	76.0	78.4	76.3	68.2	56.7	41.8	38.4	56.7**
1992	34.7	41.8	45.4	55.8	62.5	70.3	77.9	70.7	66.3	54.7	45.5	34.9	55.0
1993	33.0	31.7	40.7	51.0	64.3	72.4	80.4	76.7	64.8	53.6	42.4	36.0	53.9
1994	26.4	34.4	43.5	55.8	60.7	75.4	75.7	71.8	64.6	56.9	50.8	39.4	54.6

* Carbondale data missing, Du Quoin data substituted.

** Annual averaqe calculated from Carbondale and Du Quoin data.

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COOLING DEGREE DAYS CARBONDALE, IL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTAL
1899	0≠	0≠	0≠	0≠	136≠	336≠	360≠		178≠	34≠	0≠	0≠	
1900	0≠	0≠	0≠	0≠	149≠	264≠	744≠	533≠	318≠	54≠	0≠	0≠	2,062≠
1901	0≠	0≠	0≠	0≠	100≠	354≠	605≠	391≠	183≠	5≠	0≠	0≠	1,638≠
1902	0≠	0≠	0≠	0≠	205≠	282≠	434≠	353≠	106≠	23≠	0≠	0≠	1,403≠
1903	0≠	0≠	0≠	0≠	153≠	170≠	341M≠	435≠					
1910		0	73	33	75	240	456	363	248	67	0	0	
1911	0	4	0	4	283	446	462	406M≠	385	80	3	0M≠	2,073M##
1912	0	0	2	20	176	168	460	386	275	8M≠	0	0	1,495M##
1913	0	0	0	24	128	374	489	514	236	47	13	0	1,825
1914	0	0	0	55	169	494	565	456≠	214	46	8	0	2,007##
1915	0	0	0	91	132	251	394	217M≠	279	30	29	0	1,423M##
1916	0	0	0	20	194	212	541	471	196	33	6	0	1,673
1917	0	0	6	31	61	264M≠	422	326	173	23	0	0	1,306M##
1918	0	0	16	7	243	379	406	560	53	52	0	0≠	1,716##
1919	0	0≠	0	51	85	392	513	402	256	90	0	0	1,789##
1920	0	0	4	12	125	261M≠	397	302	244	64≠	0M≠	0	1,409M##
1921	0	0	28	37	173	428	562	355	334	6	0	0	1,923
1922	0	0	0	41	138	365	400	392	241	62	0	0	1,639
1923	0	0	0	12	68	302	478	413	170	5	0	0	1,448
1924	0	0	0	49	38	316	329	452	105	82	10	0	1,381
1925	0	0M≠	12	102	92	427	442	410	400	28	0	0	1,913M##
1926	0	0	0	6	173	264	499	450	304	13M≠	0	0	1,709M##
1927	0	3	2	40	119	227	373	232	330	66	8	0	1,400
1928	0	0*	0	11	100	166	460	412	136	97	1	0	1,383**
1929	0	0	29	42	121	245	453	320	178	8	0	0	1,396
1930	0	2	0	69	139M≠	298	548	458	254	50	3	0	1,821M##
1931	0	0	0	25	93	409	503	367	365	85	23	0	1,870
1932	0M≠	0	0	41	137	379	512	421	172	9	0	0	1,671M##
1933	0	0	3	0≠	148	408	436	352	329	22	4	0	1,702##
1934	0M≠	0	0	26	133	453	611	433	141	48	2	0	1,847M##
1935	0	0	18	24	76	206	505	459	190	57	4	0	1,539
1936	0	1	2	34	184	363	611	623	329	40	9	0	2,196
1937	0	0	0	32	136	312	372	508	190	40	0	0	1,590
1938	0	1	15	52	144	266	468	501	263	60	5	0	1,775
1939	0	0≠	14	13	170	325	451	362	367	83	0	0	1,785##
1940	0	0	3	41	65	287	393	400	200	80	0	0	1,469
1941	0	0	0	62	192	391	521	488	271	92	0	0	2,017
1942	0	0	0	49	104	328	451	327	240	36	12	0	1,547
1943	0	0	2	20	109	398	477	467	119	21	0	0	1,613
1944	0	0	4	10	264	415	440	404	179	56	6	0≠	1,778##
1945	0	0	13	17	64	234	338	352	214	7	7	0	1,246
1946	0	0	10	50	40	353	437	285	170	42	6	0	1,393
1947	0	0	0	22	109	277	276	552	230	63	0	0	1,529
1948	0	0*	11*	63	61	264	427*	326M≠	217*	1*	0M≠	3	1,373M^
1949	0	0	6M	10	140M	327	476	350	76	64	3	0M	1,452M
1950	1	0	2	14	130	290	298	255	129	72	8	0	1,199

* Carbondale data missing, Du Quoin data substituted.

** Annual total calculated from Carbondale and Du Quoin data.

x Carbondale and Du Quoin data missing, Anna data substituted.

xx Annual total calculated fron Carbondale and Anna data.

≠ Degree days based on mean monthly temperatures as opposed to daily accumulated values.

Annual total calculated from values based on mean monthly temperature as well as daily accumulated values.

^ Annual total calculated from values based on mean monthly temperature and daily accumulated values from Carbondale, and data from Du Quoin.

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Data from 1899 through Auq 1903 are from Hallidayboro. Ho continuous observations were made until Feb 1910, when it resumed as Carbondale.

COOLING DEGREE DAYS CARBONDALE, IL

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTAL
1951	0	0	0	33	123	287	411	369	107	50	0	0	1,380
1952	0	0	0	14	121M	504	481	370	133	21	0	0	1,644M
1953	0	0	0	10M	163*	470	442	344	219	41	0	0M	1,689M**
1954	0	2M	3	70	58	347M	520	471≠	241M	83M	0	0	1,795M≠≠
1955	0	0	5	42	108	185	492*	413M	246	26	13M	0	1,530M**
1956	0	0	12M	30M	164*	283M*	397	390	170	31M	1	0M	1,478M**
1957	0	0	0	86	131	319	408	354	172	1	0	0	1,471
1958	0	0	0	5	109	226M	396	378	169	29	8	0	1,320M
1959	0	0	2	23	224	276	347	431	202	47	0	0	1,552
1960	0	0	3	48	104	274	344	412	260	28	1M	0	1,474M
1961	0	0	0	25M	46	241	400	322	264	53	11	0	1,362M
1962	0	0	0	40	307	294	422	356	137	87	0	0*	1,643**
1963	0*	0M	8*	67	111	330	385	353	168	92M	2M	0	1,516M**
1964	0	0	0	46	170	355	417	372	205	9	9	0	1,583
1965	0	0	0	84	213	313	390M	355	207	24	6	0	1,592M
1966	0	0	6	18	91	270	536	304	104	12	10	0	1,351
1967	2	0	29	75	92M	299*	328	228	114	62	0	0	1,229M**
1968	0	0	11	20	70M	350	415	409	143	61	2	0	1,481M
1969	0	0	0	18	118	326	486	341	152	59	0	0	1,500
1970	0	0	0	48	182	255	381	390	314	19	0	1	1,590
1971	0M	0	0	22	46	412	366	312	254	65	4x	0x	1,481Mxx
1972	0M*	0M*	0M*	33	106	259	346M	326	237	23	0M	0M	1,330M**
1973	0M	0	0	13	35	316	413M*	365M*	223	56	4	0	1,425M**
1974	0	0	12	31	114	156	425	304	69	16M	9	0	1,136M
1975	0	0	0	17	128	278	345	331	97	15	3M	0	1,214M
1976	0	1	5	47M	35	192	337	224	72	5	0	0	918M
1977	0	0	3	39	195	301	458	359	193	10	3	0	1,561
1978	0	0	0	26	116	276	417	360	208	5	0	0	1,408
1979	0	0	0M	6	68	261	351	299	99	37	0	0	1,121M
1980	0M	0	0	11	80	276	513	491	224	25	0	0	1,620M
1981	0	0	2	71	38	305	411	294	94	23	0	0	1,238
1982	0	0	4	3	160	157	405	253	106	36	11	3	1,138
1983	0	0	4	6	44	235	451	462	203	13	0	0*	1,418**
1984	0	0	0	18	50*	356	305	296	145*	41*	0*	0*	1,211**
1985	0*	0*	5	29	96*	183	323	215	148	57*	2	0*	1,058**
1986	0*	0*	10*	40*	142*	361*	492*	261*	208	31*	0	0	1,545**
1987	0	0	1	20	200	332	377	363	136	1	1	0	1,431
1988	0	0	2	5	73	302	408	462	123	8	0	0	1,383
1989	0	0	5	53	61	217	365	332	111	28	1	0	1,173
1990	0	0	19	33	41	311	417	275	192	3	1	0	1,292
1991	0	0	6	17	247*	334	422	353	223	28	0	0	1,630**
1992	0	0	0	39	74	182	408	194	123	9	0	0	1,029
1993	0	0	1	0	77	254	485	369	79	8	0	0	1,273
1994	0	0	0	22	34	319	338	221	74	10	2	0	1,020

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YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	SEASONAL TOTAL
1898-1899							998≠	1182≠	767≠	312≠	63≠	0≠	
1899-1900	0≠		22≠	166≠	402≠	967≠	908≠	991≠	735≠	342≠	51≠	0≠	
00-01	0≠	0≠	0≠	146≠	528≠	825≠	834≠	879≠	539≠	318≠	100≠	0≠	4,169≠
01-02	0≠	0≠	17≠	195≠	612≠	1,035≠	942≠	1,008≠	499≠	288≠	0≠	0≠	4,596≠
02-03	0≠	0≠	94≠	177≠	381≠	933≠	983≠	818≠	459≠	249≠	47≠	30≠	4,171≠
03-04	0≠M	0≠											
09-10								881	233	255	107	23	
10-11	0	5	3	191	654	993	757	640	467	243	69	0	4,022
11-12	0	0M≠	0	220	664	766M≠	1,249	982	755	181	46	4	4,867M##
12-13	0	2	61	192M≠	535	832	836	867	632	274	53	15	4,299M##
13-14	0	0	55	292	361	761	751	925	644	279	67	0	4,135
14-15	0	0≠	24	186	455	1,034	1,006	654	780	159	52	2	4,352##
15-16	0	0M≠	35	135	405	857	846	842	618	295	53	1	4,087M##
16-17	0	0	61	207	459	906	851	845	497	269	187	0M≠	4,282M##
17-18	0	0	29	398	526	1,174	1,408	706	346	316	37	0	4,940
18-19	0	0	95	116	533	632≠	807	736≠	503	207	101	0	3,730##
19-20	0	0	4	137	565	965	1,010	805	559	327	80	0M≠	4,452M##
20-21	0	2	16	136M≠	621M≠	790	755	642	282	218	90	0	3,552M##
21-22	0	0	7	233	464	742	1,017	712	515	205	18	0	3,913
22-23	0	0	12	205	475	808	746	890	638	272	97	8	4,151
23-24	0	3	25	315	515	573	1,117	829	746	211	141	7	4,482
24-25	1	0	54	127	489	957	931	563M≠	427	129	131	0	3,809M##
25-26	0	0	0	411	567	911	910	628	701	363	37	5	4,533
26-27	0	0	33	187M≠	671	913	953	536	504	190	79	8	4,074M##
27-28	0	4	34	128	426	920	905	794*	573	351	59	8	4,202**
28-29	0	0	92	171	503	799	1,011	966	404	185	150	15	4,296
29-30	0	0	28	196	651	802	1,124	526	580	188	61M≠	8	4,164M##
30-31	0	0	7	284	520	867	797	613	706	250	144	8	4,196
31-32	0	1	20	130	303	585	685M≠	517	713	218	57	0	3,229M##
32-33	0	0	30	228	667	904	662	812	581	567≠	43	9	4,503##
33-34	0	0	1	240	562	693	806≠	894	655	254	34	0	4,139##
34-35	0	0	47	139	400	894	847	663	348	325	116	7	3,786
35-36	0	2	29	192	559	1,026	1,117	1,026	388	371	34	0	4,744
36-37	0	0	10	219	640	747	888	776	669	260	60	2	4,271
37-38	0	0	57	280	640	946	909	507	298	204	53	0	3,894
38-39	0	0	42	135	498	850	738	801≠	459	318	51	0	3,892##
39-40	0	0	9	203	649	798	1,400	860	609	309	117	0	4,954
40-41	0	0	71	143	622	647	873	878	736	161	38	0	4,169
41-42	0	0	17	126	550	730	999	846	512	209	86	9	4,084
42-43	0	2	110	194	483	930	932	676	725	297	45	2	4,396
43-44	0	0	65	244	632	954	851	697	639	282	71	5	4,440
44-45	0	2	14	226	515	1,060≠	1,036	784	314	226	161	25	4,363##
45-46	0	3	34	244	549	1,065	898	648	222	169	81	11	3,924
46-47	0	5	18	130	447	665	812	958	803	246	95	1	4,180
47-48	10	0	79	65	668	833	1,185	826*	583*	186	90	0	4,525**
48-49	0*	0M≠	15*	302*	495M≠	750	810	670	575M	283	38M	0	3,938M^
49-50	0	1	103	180	504	711M	704	697	625	354	40	5	3,924M

* Carbondale data missing, Du Quoin data substituted.

** Seasonal total calculated from Carbondale and Du Quoin data.

x Carbondale and Du Quoin data missing, Anna data substituted.

$ Seasonal total calculated fron Carbondale, Du Quoin, and Anna data.

≠ Degree days based on mean monthly temperature as opposed to daily accumulated values.

Seasonal total calculated fron values based on nean monthly temperatures as well as daily accumulated values.

^ Seasonal total calculated from values based on nean nonthly temperature and daily accumulated values from Carbondale as vell as values from Du Quoin

M Monthly- fever than 4 days missing. Annually- one or more months incomplete.

Data from 1899 through Aug 1903 are from Hallidayboro. Ho continuous observations vere made until Feb 1910, when it resumed as Carbondale.

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	SEASONAL TOTAL
50-51	0	6	43	93	711	1,025	909	765	619	369	62	1	4,603
51-52	0	0	45	186	738	836	752	637	597	286	78M	0	4,155M
52-53	0	0	43	381	548	804	805	634	467	358M	64*	0	4,104M**
53-54	0	0	27	223	576	882M	919	546M	619	139	178	4M	4,113M
54-55	0	0≠	25M	283M	579	833	920	743	525	124	29	17	4,078M##
55-56	0*	0M	17	224	607M	957	1,044	678	564M	333M	58*	15M*	4,497M**
56-57	0	3	54	123M	541	668M	1,059	606	589	228	54	3	3,928M
57-58	0	1	28	330	579	664	977	1,011	747	250	72M	0	4,659M
58-59	0	3	46	248	452	1,009	1,025	753	543	226	48	4	4,357
59-60	0	0	28	244	725	732	869	894	1,008	202	143	0	4,845
60-61	0	0	6	202	559M	1,008	1,056	669	473	381M	138	9	4,501M
61-62	0	1	41	183	549	901	1,055	671	689	335	5	0	4,430
62-63	2	0	65	162	588	988*	1,215*	950M	444*	207	85	1	4,707M**
63-64	0	1	26	73M	473M	1,182	869	839	550	160	28	5	4,206M
64-65	0	2	41	305	473	866	887	777	822	173	5	0	4,351
65-66	0M	5	30	248	389	658	1,127	830	516	290	97	6	4,196M
66-67	0	0	45	306	487	854	812	838	428	168	94M	14*	4,046M**
67-68	2	6	62	230	626	823	1,023	958	538	207	73M	2	4,550M
68-69	0	1	8	248	558	909	972	765	774	211	55	2	4,503
69-70	0	0	21	270	625	960	1,174	835	685	186	44	0	4,800
70-71	0	0	17	213	570	748	1,036M	788	641	275	92	0	4,380M
71-72	1	0	22	62	517x	631x	930M*	767M*	526M*	244	50	11	3,761M$
72-73	7M	1	15	255	670M	993M	999M	834	414	336	113	4	4,641M
73-74	0M*	0M*	29	174	477	918	965	765	516	284	81	10	4,219M**
74-75	0	0	135	293M	561	893	901	832	767	346	45	7	4,780M
75-76	3	0	137	247	510M	875	1,115	667	410	272M	171	2	4,409M
76-77	0	1	63	452	849	1,092	1,571	900	473	183	43	0	5,627
77-78	0	0	13	332	524	1,009	1,341	1,232	815	225	149	8	5,648
78-79	0	1	38	379	500	911	1,416	1,133	642M	328	142	3	5,493M
79-80	0	9	77	315	669	909	1,017M	1,080	776	337	90	9	5,288M
80-81	0	0	41	365	642	907	1,086	789	658	139	181	2	4,810
81-82	0	0	62	352	522	1,028	1,262	999	557	417	32	2	5,233
82-83	0	3	79	308	583	696	994	775	613	480	103	12	4,646
83-84	0	0	83	261	537	1,304*	1,259	775	826	361	142*	1	5,549**
84-85	0	0	91*	153*	641*	701*	1,313*	981*	540	232	51*	22	4,725**
85-86	0	2	107	170*	532	1,133*	969*	747*	514*	193*	53*	0*	4,420**
86-87	0*	11*	27	209*	649	927	1,038	760	537	336	18	2	4,514**
87-88	0	1	26	431	451	821	1,117	963	612	318	79	6	4,825
88-89	0	7	43	457	584	923	816	990	656	353	177	9	5,015
89-90	0	3	99	249	580	1,319	760	660	533	365	111	10	4,689
90-91	5	0	39	352	459	889	1,112	755	551	216	25*	0	4,403**
91-92	0	0	118	275	691	821	935	666	603	309	143	13	4,574
92-93	0	11	78	321	578	928	987	928	744	412	90	24	5,101
93-94	0	0	76	354	671	892	1,191	852	657	291	161	2	5,147
94-95	0	2	79	253	420	786							

* Carbondale data missing, Du Quoin data substituted.

** Seasonal total calculated from Carbondale and Du Quoin data.

x Carbondale and Du Quoin data missing, Anna data substituted.

$ Seasonal total calculated from Carbondale, Du Quoin, and Anna data.

≠ Degree days based on mean monthly temperature as opposed to daily accumulated values.

Seasonal total calculated fron values based on mean monthly temperatures as well as daily accumulated values.

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M Monthly- fewer than 4 days missing. Annually- one or more months incomplete.

Data from 1899 through Aug 1903 are from Hallidayboro. Ho continuous observations were made until Feb 1910, when it resumed as Carbondale.

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTAL
1894	2.07	3.01	3.61	3.75	2.17	1.43	1.60	1.70	3.38	4.14	1.17	3.49	31.52
1895	2.80	1.20	2.79	2.13	1.89	2.98	5.23	3.17	2.91	0.55	4.94	3.56	34.15
1896	1.99	2.32	4.33	2.17	7.05	3.51	5.31	1.78	1.76	2.35	3.14	0.89	36.60
1897	3.31	2.94	11.98	5.15	2.68	4.28	2.32	2.61	0.64	1.64	3.55	3.38	44.48
1898	4.03	1.41	7.96	3.69	9.44	4.17	7.12	5.29	2.87	4.42	1.20	1.52	53.12
1899	3.58	2.54	3.58	2.32	3.30	3.75	3.45		1.07	4.71	2.18	2.05	
1900	1.38	3.03	1.15	2.54	3.27	7.23	4.15	3.00	4.73	1.11	3.89	1.87	37.35
1901	1.25	1.25	4.21	1.79	2.03	1.60	0.07	2.51	0.74	1.95	1.23	3.33	21.56
1902	1.42	0.97	2.87	2.09	5.01	3.85	0.91	4.07	1.88	1.51	3.98	4.79	33.35
1903	1.22	3.65	3.98	1.98	1.67	1.91	2.51	3.58					
1910		3.47	0.09	3.70	2.81	8.58	8.58	2.11	5.60	10.27	0.25	2.24	
1911	0.55	2.79	1.85	10.59	1.47	2.24	2.60	8.01	5.70	3.69	3.34	2.50	45.33
1912	3.16	2.84	6.10	6.38	3.04	4.69	2.64	4.68	5.62	2.76	1.90	0.75	44.56
1913	8.70	0.79	7.63	3.00	2.10	2.62	3.35	1.37	2.74	5.73	3.44	2.05	43.52
1914	2.41	5.09	2.60	2.42	1.52	0.34	2.09	1.84	3.04	4.41	0.97	4.03	30.76
1915	4.53	2.17	0.92	0.77	8.19	7.91	4.42	10.96	3.58	0.41	2.16	6.88	52.90
1916	9.69	1.90	1.95	2.39	3.60	5.59	5.59	5.44	3.07	2.96	2.34	4.25	48.77
1917	4.24	0.89	4.41	8.00	6.98	3.48	5.20	4.19	0.92	2.87	3.12	1.54	45.84
1918	4.32	0.50	0.84	6.50	7.93	1.46	0.64	4.71	5.04	2.98	2.54	4.63	42.09
1919	0.87	1.52	4.28	3.56	7.73	3.41	2.33	2.87	3.72	10.11	5.63	0.90	46.93
1920	3.62	0.86	5.93	4.37	8.89	1.59	6.13	3.44	1.81	2.98	1.26	4.30	45.18
1921	2.98	2.28	4.82	4.59	2.24	3.01	1.41	10.73	8.51	1.18	9.56	3.36	54.67
1922	1.46	3.04	8.59	4.42	3.25	1.98	2.05	2.47	1.73	3.88	2.07	3.86	38.80
1923	3.25	3.52	4.58	3.64	7.41	1.80	0.48	6.78	4.21	3.39	2.65	4.60	46.31
1924	1.99	1.31	2.52	2.74	4.99	7.45	3.99	3.13	3.88	0.20	2.01	4.10	38.31
1925	1.56	2.55	2.90	2.93	1.80	6.93	3.16	0.72	6.29	5.68	4.51	1.01	40.04
1926	2.54	2.23	3.03	2.98	1.83	0.97	1.26	4.76	3.59	6.00	3.82	2.59	35.60
1927	4.42	0.82	6.47	9.63	8.09	2.98	6.02	2.24	6.80	2.47	5.96	4.70	60.60
1928	1.86	3.48	1.32	4.61	3.11	15.72	1.89	6.69	0.09	8.47	4.82	2.62	54.68
1929	5.26	2.48	2.77	5.56	7.19	6.41	5.24	3.57	5.90	2.00	2.94	5.57	54.89
1930	8.02	3.44	2.15	1.36	1.48	2.16	1.43	0.36	7.26	1.42	1.94	1.05	32.07
1931	0.78	2.97	3.38	4.36	6.28	0.34	2.99	5.28	3.88	4.94	7.96	4.75	47.91
1932	5.30	1.80	2.90	3.36	1.02	2.49	4.00	11.18	5.47	5.89	1.85	7.07	52.33
1933	4.40	2.46	4.93	5.01	10.29	0.23	3.41	3.02	2.67	2.34	0.84	1.95	41.55
1934	1.66	1.67	3.55	3.09	2.62	2.88	2.33	4.30	6.57	2.21	7.65	1.78	40.31
1935	3.12	1.51	9.52	4.14	7.07	15.95	2.28	2.08	3.19	3.52	3.34	1.03	56.75
1936	0.96	2.07	2.54	2.53	1.58	2.18	2.27	0.35	6.77	6.79	2.55	3.05	33.64
1937	13.02	1.64	1.04	4.66	4.44	7.86	4.64	1.28	4.11	4.27	2.44	2.93	52.33
1938	3.20	2.77	4.69	2.43	4.06	6.70	3.95	4.55	1.57	0.91	3.09	1.69	39.61
1939	5.01	5.07	4.37	7.76	1.94	5.22	1.74	2.55	0.77	0.95	1.90	2.14	39.42
1940	1.45	3.98	2.55	5.86	3.53	2.60	2.07	2.24	0.45	0.54	3.98	2.92	32.17
1941	2.45	0.87	2.08	2.95	2.00	0.76	1.02	2.78	2.72	8.45	3.72	3.46	33.26
1942	2.97	4.72	4.59	3.47	5.21	4.42	2.81	3.60	1.25	2.81	6.47	1.40	43.72
1943	0.10	1.41	5.01	3.60	8.68	4.76	3.62	1.46	5.61	1.83	2.37	1.68	40.13
1944	0.56	3.61	3.73	5.83	2.84	1.71	0.69	5.24	1.97	1.06	1.99	2.61	31.84
1945	2.07	7.61	12.00	10.14	3.22	11.24	3.12	7.20	9.28	3.35	3.97	1.30	74.50
1946	3.37	3.95	1.75	3.90	6.91	1.19	3.09	8.72	3.02	2.06	5.22	2.72	45.90
1947	2.43	0.46	2.65	6.12	3.75	3.12	1.41	3.74	3.60	3.75	2.44	5.31	38.78
1948	1.34	2.24*	4.00	3.25	7.15	3.43	4.08	3.51	3.85*	2.45*	6.40	2.56	44.26**
1949	10.15	3.21	6.99	1.60	2.44	3.54	2.60	4.16	4.19	9.79	0.32	5.92	54.91
1950	17.13	4.80	4.43	6.49	5.18	3.79	2.69	8.65	4.32	1.10	3.33	1.56	63.47

* Carbondale data missinq, Du Quoin data substituted.

** Annual total calculated fron Carbondale and Du Quoin data.

H Monthly- fewer than 4 days missing. Annually- one or more months incomplete.

Data from 1894 through Aug 1903 are from Hallidayboro. No continuous observations were made until Feb 1910, when the station resumed as Carbondale.

PRECIPITATION CARBONDALE, IL

YEAR	JAN	FEB	MAS	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL TOTAL
1951	4.90	5.35	2.98	3.15	1.00	9.60	4.27	3.64	5.72	3.00	6.27	3.62	53.50
1952	2.00	2.65	6.66	4.08	3.13	1.72	4.31	2.15	2.91	1.16	3.70	2.34	36.81
1953	3.42	1.14	6.56	3.88	4.29	2.79	2.34	0.70	0.44	2.55	1.06	0.58	30.15
1954	4.41	3.13	1.32	2.77	3.87	4.69	2.97	3.51	4.65	3.38	1.97	6.68	43.35
1955	0.49	2.82	5.74	2.88	5.20	4.09	2.16	0.88	0.91	3.81	2.08	0.29	31.35
1956	1.49	6.65	2.38	2.64	4.02	3.24	6.52	2.96	2.49	1.84	3.08	3.01	40.32
1957	3.54	3.92	2.98	10.69	12.59	3.72	2.59	1.33	2.51	1.91	6.41	5.63	57.82
1958	2.32	1.59	3.99	5.21	3.88	5.08	13.53	4.03	2.14	1.70	6.35	0.74	50.56
1959	3.38	2.48	3.81	2.16	5.27	2.33	2.34	8.02	5.89	3.19	2.31	4.44	45.62
1960	2.37	2.36	2.46	2:78	5.47 .	4.10	1.15	3.83	0.88	2.25	3.68	3.78	35.11
1961	1.40	4.55	5.42	4.36	10.16	5.00	6.88	2.14	0.82	0.50	6.49	4.30	52.02
1962	4.93	4.68	4.04	2.27	3.45	3.54	1.38	2.87	2.84	2.76	1.09	2.90	36.75
1963	1.00	0.58	7.15	1.39	2.38	3.09	3.55	1.70	0.47	0.23	3.47	1.52	26.53
1964	1.55	2.37	9.52	3.89	2.19	2.36	3.76	3.02	3.31	0.00	2.99	2.57	37.53
1965	3.88	4.42	2.36	3.14	2.29	4.91	3.94	3.66	7.56	2.16	0.91	1.40	40.63
1966	3.44	3.82	1.03	7.28	4.99	2.95	0.68	3.12	4.08	1.71	3.26	4.63	40.99
1967	1.61	2.30	3.39	2.88	3.21	5.58	3.08	3.23	3.50	5.89	3.42	7.05M	45.14M
1968	2.45	1.16	4.87	4.50	4.79	3.41	2.42	2.50	3.36	0.90	6.28	4.60	41.24
1969	6.47	1.20	2.46	3.96	3.70	5.60	9.29	1.47	5.42	5.16	1.56	3.43	49.72
1970	0.77	2.07	5.22	5.13	4.05	4.64	1.88	3.39	3.79	3.18	1.85	1.92	37.89
1971	2.37	4.64	1.11	3.90	5.72	2.38	3.36	6.85	1.89	0.58	1.32	3.83	37.95
1972	1.91	3.00	3.44	5.74	1.75	1.63	5.35	8.05	3.64	2.56	6.69	4.16	47.92
1973	2.47	1.38	7.37	7.52	7.05	4.72	3.28	3.60	1.92	3.66	8.12	3.77	54.86
1974	3.71	1.71	5.53	4.40	6.05	3.15	0.54	6.67	5.02	1.86	4.17	2.52	45.33
1975	3.52	4.88	6.64	4.60	4.53	4.03	4.41	7.70	2.88	1.69	4.51	4.55	53.94
1976	1.47	2.28	3.04	2.43	3.67	5.50	6.93	2.64	1.32	3.77	0.68	0.63	34.36
1977	1.69	2.36	9.23	1.79	1.55	5.46	2.74	5.35	4.03	2.08	3.24	3.91	43.43
1978	1.98	0.90	5.31	3.26	1.75	1.74	2.37	8.09	0.16	2.03	5.62	4.47	37.68
1979	3.92	6.30	5.26	8.26	3.32	4.68	6.54	5.47	1.58	1.72	6.31	2.54	55.90
1980	1.42	1.38	4.52	2.21	3.26	5.04	3.71	0.85	3.93	3.55	2.33	0.76	32.96
1981	0.55	2.23	1.96	1.68	10.94	6.70	7.34	1.74	0.70	3.07	2.58	3.03	42.52
1982	8.70	1.77	2.95	1.92	5.34	4.45	2.84	2.30	3.05	1.77	3.59	12.23	50.91
1983	0.56	0.89	3.09	11.60	6.78	4.25	1.49	2.14	0.90	6.30	6.39	3.32*	47.71**
1984	0.72	2.75	5.06	2.57	3.50*	2.47	2.13	4.73	6.80*	8.42*	6.90*	5.20*	51.25**
1985	0.83*	2.35*	6.92 '	2.78	5.24*	8.54	4.21	10.01	0.53	6.30*	8.96	1.03*	57.70**
1986	0.35*	2.71*	3.88*	3.06*	4.19*	0.78*	7.47*	4.17*	5.51	4.49*	2.57	2.86	42.04**
1987	0.97	2.82	2.87	2.44	1.32	5.92	5.24	2.81	1.76	1.55	4.42	7.30	39.42
1988	2.11	2.24	5.39	2.55	3.14	0.93	2.86	2.53	7.57	3.38	6.36	3.27	42.33
1989	3.04	6.66	6.43	2.03	2.70	7.47	1.62	2.08	2.09	0.92	0.96	1.44	37.44
1990	4.11	7.09	3.04	6.13	10.88	2.51	4.32	4.51	2.06	4.51	3.80	7.90	60.86
1991	3.35	2.32	2.93	3.63	3.19*	0.42	2.64	2.03	3.20	5.41	7.44	3.64	40.20**
1992	1.89	1.72	3.44	3.04	2.58	1.90	2.58	3.37	6.28	2.71	5.76	1.06	36.33
1993	6.76	3.26	2.63	5.06	3.96	7.59	3.81	2.30	9.52	3.63	8.05	2.39	58.96
1994	3.74	1.74	2.25	6.41	1.05	5.56	1.00	5.29	2.53	2.44	9.13	2.58	43.72

* Carbondale data missing, Du Quoin data substituted.

** Annual total calculated fron Carbondale and Du Quoin data.

M Monthly- fewer than 4 days missing. Annually- one or lore months incomplete.

Data fron 1894 through Aug 1903 are from Hallidayboro. No continuous observations were made until Feb 1910, when the station resulted as Carbondale.

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	SEASONAL TOTAL
1893-1894							2.0	3.0	0.0	0.0	0.0	0.0	
94-95	0.0	0.0	0.0	0.0	0.0	1.5	11.0	5.0	2.0	0.0	0.0	0.0	19.5
95-96	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	6.0	0.0	0.0	0.0	14.0
96-97	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.0	0.5	0.0	0.0	0.0	6.5
97-98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
98-99	0.0	0.0	0.0	0.0	2.0	1.5	2.0	7.5	0.0	3.0	0.0	0.0	16.0
1899-1900	0.0		0.0	0.0	0.0	3.1	0.0	4.9	0.0	0.0	0.0	0.0	8.0
1900-01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7
01-02	0.0	0.0	0.0	0.0	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	3.8
02-03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
03-04	0.0	0.0											
09-10								14.3	0.0	3.0	0.0	0.0	
10-11	0.0	0.0	0.0	0.0	0.0	5.0	0.0	2.0	8.2	0.0	0.0	0.0	15.2
11-12	0.0	0.0	0.0	0.0	0.9	0.0	18.7	13.9	16.9	0.0	0.0	0.0	50.4
12-13	0.0	0.0	0.0	0.0	0.0	0.5	2.2	4.9	2.2	0.0	0.0	0.0	9.8
13-14	0.0	0.0	0.0	0.3	0.0	6.9	3.0	11.0	5.7	0.0	0.0	0.0	26.9
14-15	0.0	0.0	0.0	0.0	0.0	3.6	0.8	1.0	0.0	0.0	0.0	0.0	5.4
15-16	0.0	0.0	0.0	0.0	0.0	6.6	6.0	4.5	3.4	0.0	0.0	0.0	20.5
16-17	0.0	0.0	0.0	0.0	0.4	9.1	5.4	7.5	0.5	0.0	0.0	0.0	22.9
17-18	0.0	0.0	0.0	0.0	0.0	12.8	25.3	0.0	0.0	0.0	0.0	0.0	38.1
18-19	0.0	0.0	0.0	0.0	0.0	0.4	0.6	1.2	0.0	0.0	0.0	0.0	2.2
19-20	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.9	1.0	1.0	0.0	0.0	4.2
20-21	0.0	0.0	0.0	0.0	0.0	0.0	2.5	6.3	0.1	0.0	0.0	0.0	8.9
21-22	0.0	0.0	0.0	0.0	0.0	0.5	2.9	0.0	2.0	0.0	0.0	0.0	5.4
22-23	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.9	0.0	0.0	0.0	0.0	1.1
23-24	0.0	0.0	0.0	0.0	0.0	0.0	2.3	3.5	14.3	0.0	0.0	0.0	20.1
24-25	0.0	0.0	0.0	0.0	0.0	2.6	5.8	0.6	0.6	0.0	0.0	0.0	9.6
25-26	0.0	0.0	0.0	4.0	0.0	0.6	8.9	2.0	0.0	0.0	0.0	0.0	15.5
26-27	0.0	0.0	0.0	0.0	3.0	7.6	2.1	1.8	5.3	0.0	0.0	0.0	19.8
27-28	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.7	4.5	0.0	0.0	0.0	8.7
28-29	0.0	0.0	0.0	0.0	0.0	0.0	0.8	10.9	0.0	0.0	0.0	0.0	11.7
29-30	0.0	0.0	0.0	0.0	4.0	9.4	8.9	0.5	1.0	0.0	0.0	0.0	23.8
30-31	0.0	0.0	0.0	0.0	0.0	1.0	1.8	0.0	0.8	0.0	0.0	0.0	3.6
31-32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4
32-33	0.0	0.0	0.0	0.0	6.5	5.8	0.0	2.7	0.1	0.0	0.0	0.0	15.1
33-34	0.0	0.0	0.0	0.0	0.0	0.8	0.7	5.2	3.1	0.0	0.0	0.0	9.8
34-35	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.6
35-36	0.0	0.0	0.0	0.0	0.0	4.6	1.5	9.2	0.5	0.2	0.0	0.0	16.0
36-37	0.0	0.0	0.0	0.0	1.3	1.1	7.0	3.3	0.9	0.0	0.0	0.0	13.6
37-38	0.0	0.0	0.0	0.0	3.2	0.0	0.6	0.0	0.0	0.5	0.0	0.0	4.3
38-39	0.0	0.0	0.0	0.0	0.9	0.0	3.8	13.5	0.0	0.0	0.0	0.0	18.2
39-40	0.0	0.0	0.0	0.0	0.0	9.8	7.0	7.0	3.2	0.0	0.0	0.0	27.0
40-41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.4	0.0	0.0	0.0	1.8
41-42	0.0	0.0	0.0	0.0	0.2	0.9	2.7	3.9	3.1	0.0	0.0	0.0	10.8
42-43	0.0	0.0	0.0	0.0	0.0	3.7	0.0	0.8	5.5	0.0	0.0	0.0	10.0
43-44	0.0	0.0	0.0	0.0	0.0	0.3	0.8	2.0	1.0	0.0	0.0	0.0	4.1
44-45	0.0	0.0	0.0	0.0	0.0	2.0	6.2	1.0	0.0	0.0	0.0	0.0	9.2
45-46	0.0	0.0	0.0	0.0	0.0	8.5	0.5	0.0	0.0	0.0	0.0	0.0	9.0
46-47	0.0	0.0	0.0	0.0	0.0	0.4	0.3	4.5	9.7	0.0	0.0	0.0	14.9
47-48	0.0	0.0	0.0	0.0	0.0	0.0M	5.0	8.0*	0.0M	0.0	0.0	0.0	13.0M**
48-49	0.0	0.0	0.0	0.0*	0.0	0.0M	2.0	0.0*	4.5	0.0	0.0	0.0	6.5M**
49-50	0.0	0.0	0.0	0.0	0.0	0.0	3.5M	0.0*	0.0	0.0	0.0	0.0	3.5M**

* Carbondale data missing, Du Quoin data substituted.

** Seasonal total calculated from Carbondale and Du Quoin

x Carbondale and Du Quoin data missing, Anna data substituted.

xx Seasonal total calculated from Carbondale and Anna data.

$ Seasonal total calculated from Carbondale, Du Quoin, and Anna data.

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Data from Jan 1894 through Aug 1903 are from Halidayboro. Ho continuous observations vere made until Feb 1910, when the station resumed as Carbondale.

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	SEASONAL TOTAL
50-51	0.0	0.0	0.0	0.0	2.3	9.0	8.1	0.0	2.0	0.0	0.0	0.0	21.4
51-52	0.0	0.0	0.0	0.0	6.0	1.0M	0.0	1.0	0.0M	0.0	0.0	0.0	8.0M
52-53	0.0*	0.0	0.0	0.0	1.0	1.6	0.7	0.0	0.0M	0.0	0.0	0.0	3.3M**
53-54	0.0	0.0	0.0	0.0	0.0	0.0	8.7	0.0	0.0	0.0	0.0	0.0	8.7
54-55	0.0	0.0	0.0	0.0	0.0	0.3	4.5	0.0M	0.5	0.0	0.0	0.0	5.3M
55-56	0.0	0.0	0.0	0.0	0.0	0.7	9.8	2.0	0.0	0.0	0.0	0.0	12.5
56-57	0.0	0.0	0.0	0.0	0.5	0.0	0.9	0.0	0.0	0.0	0.0	0.0	1.4
57-58	0.0	0.0	0.0	0.0	0.0	0.3	0.6	3.6	6.3	0.0	0.0	0.0	10.8
58-59	0.0	0.0	0.0	0.0	7.8	1.0	2.0	0.0	0.0	0.0	0.0	0.0	10.8
59-60	0.0	0.0	0.0	0.0	1.3	0.0	0.0	7.0	19.2	0.0	0.0	0.0	27.5
60-61	0.0	0.0	0.0	0.0	0.0	2.5	6.1	8.9	0.0	0.0	0.0	0.0	17.5
61-62	0.0	0.0	0.0	0.0	0.0	4.0	3.8	0.4	0.0	0.0	0.0	0.0	8.2
62-63	0.0	0.0	0.0	0.0	0.0	2.0	3.6	1.3	1.8	0.0	0.0	0.0	8.7
63-64	0.0	0.0	0.0	0.0	0.0	4.4	4.5	2.3	0.0	0.0	0.0	0.0	11.2
64-65	0.0	0.0	0.0	0.0	0.5	0.0	3.6	6.1	7.6	0.0	0.0	0.0	17.8
65-66	0.0	0.0	0.0	0.0	0.0	0.0	2.5	11.0	0.0	0.0	0.0	0.0	13.5
66-67	0.0	0.0	0.0	0.0	0.0	3.5	0.0	7.5	6.0	0.0	0.0	0.0	17.0
67-68	0.0	0.0	0.0	0.0	0.0	0.5M	4.3	1.0	2.5	0.0	0.0	0.0	8.3M
68-69	0.0	0.0	0.0	0.0	0.0	0.0	2.0	4.5	1.5	0.0	0.0	0.0	8.0
69-70	0.0	0.0	0.0	0.0	2.5	9.6M	3.0	5.5	7.0	0.0	0.0	0.0	27.6M
70-71	0.0	0.0	0.0	0.0	0.0	1.5	0.5	4.8*	0.5	9.0	0.0	0.0	16.3**
71-72	0.0	0.0	0.0	0.0	1.0	0.0	3.0	0.7x	0.0	0.4	0.0	0.0	5.1xx
72-73	0.0	0.0	0.0	0.0	0.0	2.5x	0.5M	1.5	0.0	0.0*	0.0	0.0	4.5M$
73-74	0.0	0.0	0.0	0.0	0.0	6.0	1.0	0.5	4.0	0.0	0.0	0.0	11.5
74-75	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.0	11.0	0.0	0.0	0.0	13.5
75-76	0.0	0.0	0.0	0.0	4.0	5.0	3.0	3.7	0.5	0.0	0.0	0.0	16.2
76-77	0.0	0.0	0.0	0.0	0.0	2.5	18.3	0.0	0.0	0.0	0.0	0.0	20.8
77-78	0.0	0.0	0.0	0.0	3.0	2.0	19.6	4.1	5.0	0.0	0.0	0.0	33.7
78-79	0.0	0.0	0.0	0.0	0.0	2.5	20.6	15.7	1.0	0.0	0.0	0.0	39.8
79-80	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.8	2.5	0.0	0.0	0.0	11.8
80-81	0.0	0.0	0.0	0.0	6.5	0.0	1.5	1.0	0.0	0.0	0.0	0.0	9.0
81-82	0.0	0.0	0.0	0.0	0.0	0.0	4.5	9.3	0.0	0.0	0.0	0.0	13.8
82-83	0.0	0.0	0.0	0.0	0.0	0.0	0.8*	0.3*	0.0M	0.0	0.0	0.0	1.1M**
83-84	0.0	0.0	0.0	0.0	0.0	0.9*	2.8	13.0	3.3	0.0	0.0*	0.0	20.0**
84-85	0.0	0.0	0.0*	0.0*	0.0*	4.5*	9.2*	3.0*	0.0	0.0	0.0*	0.0	16.7**
85-86	0.0	0.0	0.0	0.0*	0.0	2.0*	0.5*	4.0*	0.0*	0.0*	0.0*	0.0*	6.5**
86-87	0.0*	0.0*	0.0	0.0*	0.0	0.0	3.5	1.5	0.0M	0.0	0.0	0.0	5.0M**
87-88	0.0	0.0	0.0	0.0	0.0	0.8	3.0	0.0M	0.0	0.0	0.0	0.0	3.8M
88-89	0.0	0.0	0.0	0.0	0.0	5.5	0.0	1.0	0.8	0.0	0.0	0.0	7.3
89-90	0.0	0.0	0.0	0.0	0.0	8.0	4.0M	0.0	3.0	0.0	0.0	0.0	15.0M
90-91	0.0	0.0	0.0	0.0	0.0	8.0M	0.3*	0.0	0.0	0.0	0.0*	0.0	8.3M**
91-92	0.0	0.0	0.0	0.0	3.0*	0.0	1.0	0.0	0.5	0.0	0.0	0.0	4.5**
92-93	0.0	0.0	0.0	0.0	0.0	1.5	1.3M	19.8	0.0	0.0	0.0	0.0	22.6M
93-94	0.0	0.0	0.0	3.7	0.0	4.5	7.4	0.0M	5.8	0.0	0.0	0.0	21.4M
94-95	0.0	0.0	0.0	0.0	0.0	0.0							

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Data fron Jan 1894 through Aug 1903 are fron Halidayboro. No continuous observations vere nade until Feb 1910, vhen the station resuned as Carbondale.

CARBONDALE STATION HISTORY

Although Carbondale observations began in 1875, there are breaks in the record, particularly from 1904 to 1910, when no observations were taken. Carbondale daily temperature and precipitation records are essentially continuous since the turn of the century.

Observations at Carbondale (and some 200 other sites in Illinois) are a component of the ~6,000 National Weather Service Cooperative sites in the U.S. These Cooperative site are operated by individuals who measure temperature and precipitation once each day, and furnish those data to the National Weather Service for publication.

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